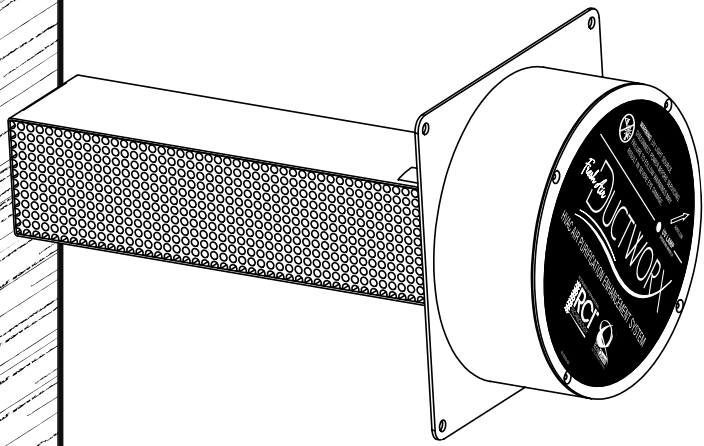
Fresh Air DUCTWORX



ECOQUEST INTERNATIONAL
RCI™
TECHNOLOGY

CERTIFIED
SPACE
TECHNOLOGY

OWNER'S MANUAL

- Specifications
- Installation
- Operation
- Features
- Maintenance

CAUTION: Read manual carefully for proper procedures and operation.

CONGRATULATIONS . . .

on your purchase of a Fresh Air DuctwoRx air purification enhancement system. This unit is designed to be installed into an existing HVAC system, and used as a virtually maintenance free enhancement to EcoQuest's air purification technology. Please read and follow all service procedures outlined in this manual. Use only genuine EcoQuest replacement parts available from your EcoQuest Dealer.

If you have any questions concerning this or any EcoQuest product, contact your EcoQuest Dealer.

Please record the name and phone of your EcoQuest Dealer:

Name _____

Phone _____

Please record the serial number of your Fresh Air DuctwoRx:

Serial # _____

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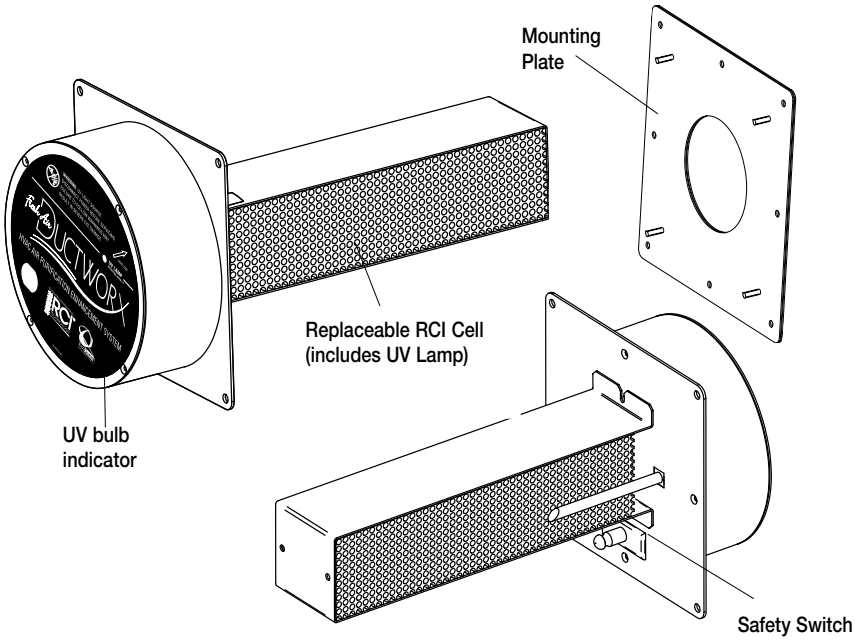
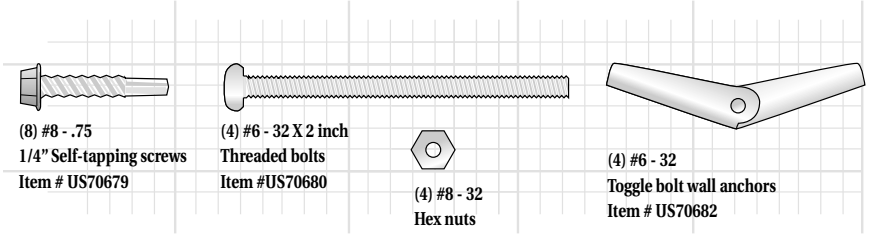
This owner's manual is also available online at: http://www.ecoquest.com/ownersmanuals

PRODUCT CONTENTS



INSTALLATION HARDWARE



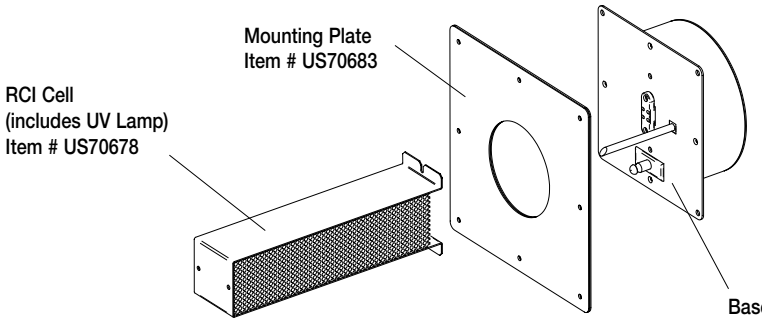
(8) #8 - .75
1/4" Self-tapping screws
Item # US70679

(4) #6 - 32 X 2 inch
Threaded bolts
Item #US70680

(4) #8 - 32
Hex nuts
Item # US70681

(4) #6 - 32
Toggle bolt wall anchors
Item # US70682

REPLACEMENT PARTS



SPECIFICATIONS

Features:

- Low level O_3 production: 0.04 ppm maximum.
- Replaceable RCI Cell.

Electrical:

- 220 or 240 VAC 50/60 Hz AC line operation, depending on model.
- 15 watts power consumption.

Mechanical:

- Distribution via air handler.

Size:

- Dimensions: 6” x 6” x 11.25” (15 cm x 15 cm x 28.5 cm.)
- Weight: 3 pounds (1.2 kg.)

Coverage:

- Covers up to 2000 ft^2 (186 m^2).

Warranty:

- Length of warranty will vary depending on model.

  See warranty card for specific details.

ABOUT DUCTWORX

Fresh Air DuctwoRx is a new generation HVAC Air System designed to work with Fresh Air by EcoQuest and Breeze[AT] to reduce odors, smoke, and a broad spectrum of indoor air contaminants.

Fresh Air DuctwoRx is easily mounted into air conditioning and heating system air ducts where many problems can start. When the HVAC system is in operation, DuctwoRx creates an Advanced Oxidation Process consisting of hydroperoxides, superoxide ions, and safe low level ozone - all friendly oxidizers that revert back to oxygen and hydrogen after the oxidation of a pollutant.

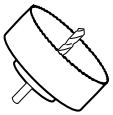
Used in conjunction with other EcoQuest air purification systems, Fresh Air DuctwoRx can boost effectiveness and help distribute their benefits throughout your home.

WARNING! - UV Light in operation. Disconnect unit from power supply before servicing. Failure to follow warnings may result in severe eye damage.

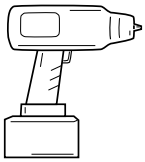
To reduce the risk of electric shock, this equipment may have a grounding type plug that has a third (grounding) pin. This plug will only fit into a grounding type power outlet. If the plug does not fit into the outlet, contact qualified personnel to install the proper outlet. Do not alter the plug in any way.

Location for Protective Earth Line.

RECOMMENDED INSTALLATION TOOLS



3 1/2" Hole Saw
for wood or metal
(recommended)



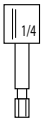
Drill/Power Driver

Phillips Screwdriver

3/8" Drill Bit
(if installing into fiberglass ducting with toggle bolts)

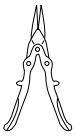
You may also need:

11/32" Open-End Wrench



1/4" Nut Driver Bit

Utility Knife

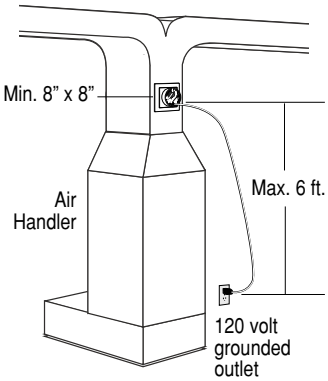


Tin Snips
(for metal ductwork)

INSTALLATION REQUIREMENTS

Installation Requirements

1. Unit should be installed after the air handler in the HVAC system.
2. The duct work around the installation area should be clean and dry to insure proper adhesion of the gasket materials and any tape used.
3. An approximate 3.5" (8.89 cm) opening will need to be cut into the existing duct work to install the unit properly.



Electrical Requirements (110 volt units only)

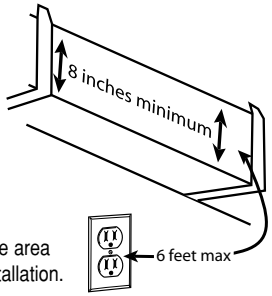
- To use the 120 volt plug, be sure to locate the unit within 6 ft. of a standard 120 volt grounded outlet. Long term use of an extension cord is not recommended due to safety considerations.

Hardwiring Requirements (All units)

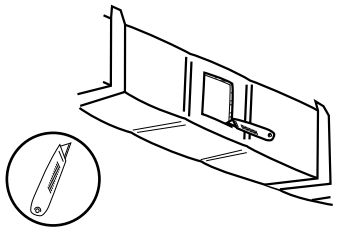
- **Permanent wiring of the unit into your HVAC system, or installations using a 220 volt plug (not included), should be done by a licensed HVAC installer or electrical contractor only. WARNING: UNIT IS EITHER 120 VOLT OR 220 - 240 VOLT ONLY. CHECK SPECIFICATIONS ON LABELING BEFORE INSTALLING.**

For 110 volt units: Black = L1, White = Neutral, Green = Ground
For 220 volt units: Black = L1, White = L2, Green = Ground
For International Units: Brown = L1, Blue = L2, Green w/yellow stripe = Ground

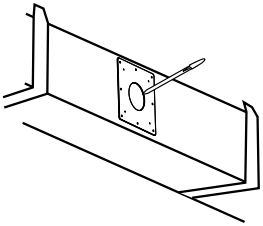
METAL DUCTWORK INSTALLATION



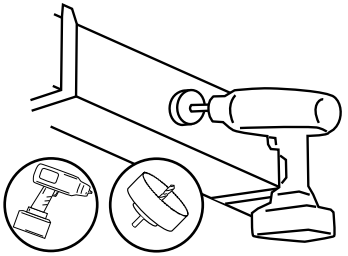
1. Locate suitable area of duct for installation.



2. Cut away insulation to expose metal duct (if needed).

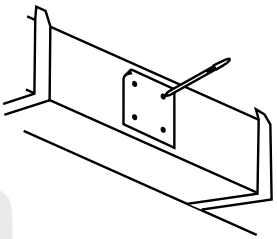


3. Mark location for 3.5" opening using either the mounting plate or included template.

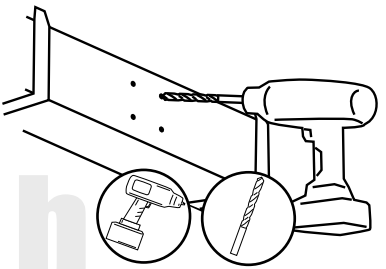


4. Cut hole in duct using 3.5" hole saw.

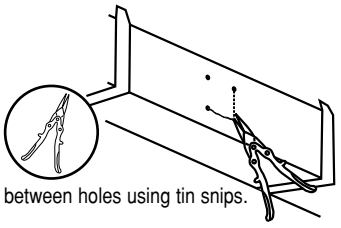
ALTERNATIVE CUTTING METHOD



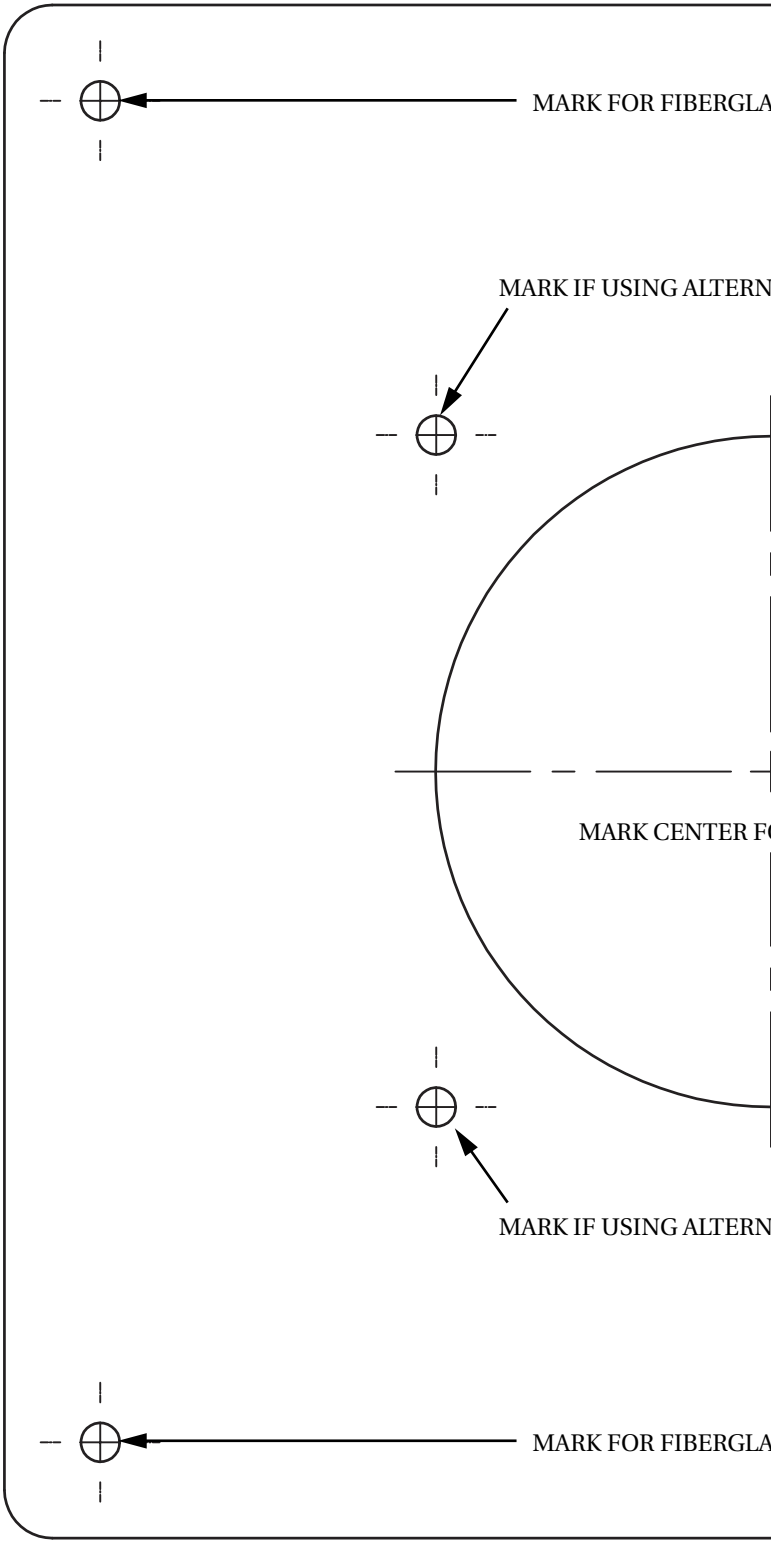
a. Using template, mark 4 holes on duct.

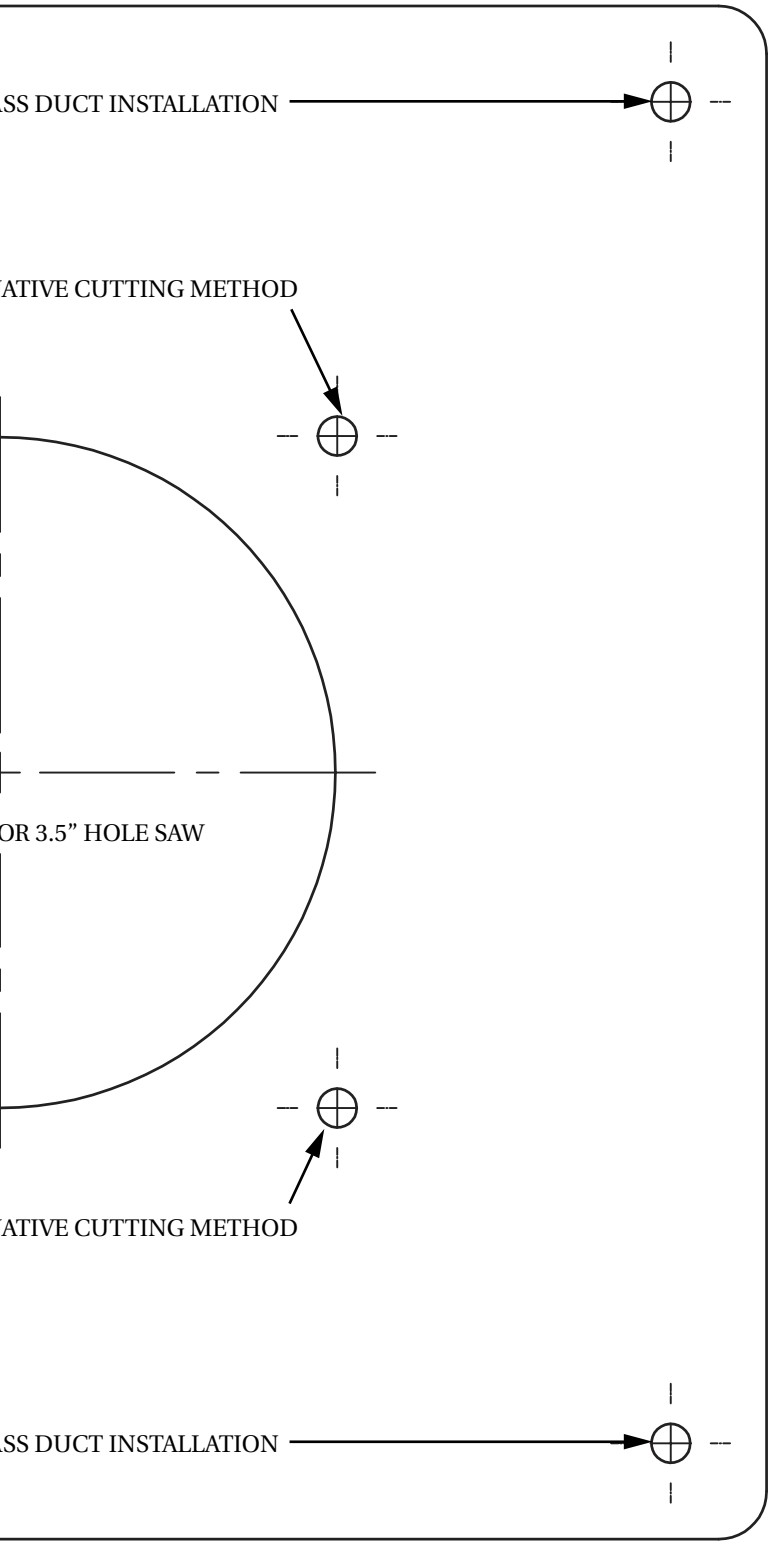


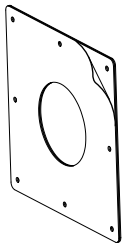
b. Drill 4 holes where marked.



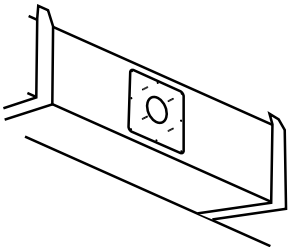
c. Cut between holes using tin snips.


MARK FOR FIBERGLA
MARK IF USING ALTERN
MARK CENTER F
MARK IF USING ALTERN
MARK FOR FIBERGLA

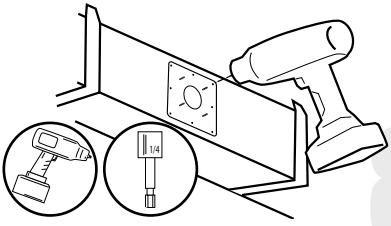

SS DUCT INSTALLATION
ATIVE CUTTING METHOD
OR 3.5” HOLE SAW
ATIVE CUTTING METHOD
SS DUCT INSTALLATION



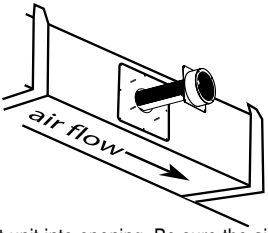
5. Remove backing from mounting plate adhesive gasket.



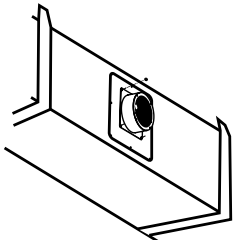
6. Center openings and press mounting plate onto duct. The adhesive gasket will hold the mounting plate in place.



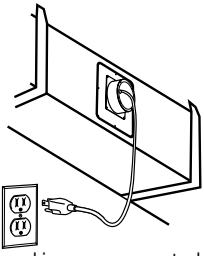
7. Secure the mounting plate using (8) #8 self-tapping screws.



8. Insert unit into opening. Be sure the air will pass though the RCI cell honeycomb matrix.



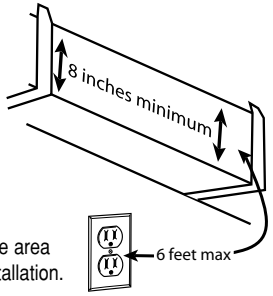
9. Secure the unit to the mounting plate with (4) #8-32 nuts.



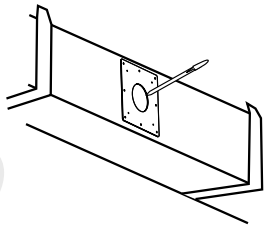
10. Plug unit into working power receptacle.

Hard wiring unit into HVAC system should be done by a licensed HVAC installer or electrical contractor only.

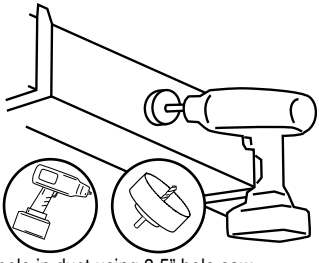
FIBERGLASS DUCTWORK INSTALLATION



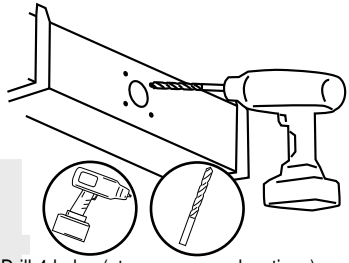
1. Locate suitable area of duct for installation.



2. Mark location for 3.5” opening using either the mounting plate or included template. Also mark the locations of 4 screw holes in corners (see template).

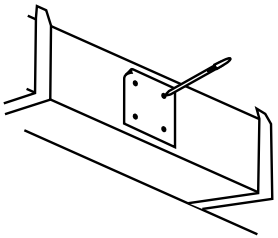


3. Cut hole in duct using 3.5” hole saw.

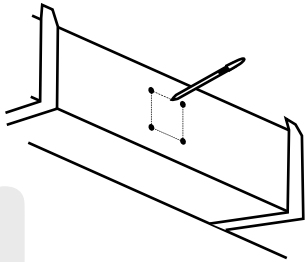


4. Drill 4 holes (at corner screw locations) using a 3/8” drill bit.

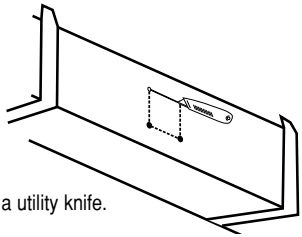
ALTERNATIVE CUTTING METHOD



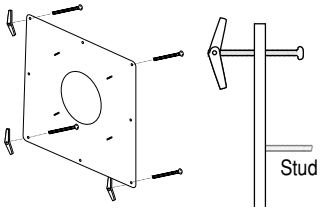
a. Using template, mark 4 holes on duct.



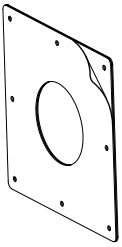
b. Draw a line between each corner mark.



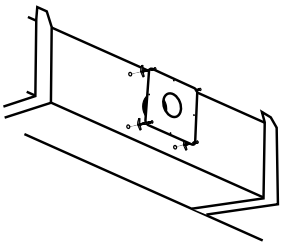
c. Cut between holes using a utility knife. Continue with #4 (above)



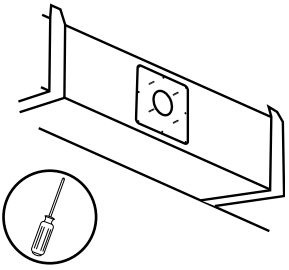
5. Insert (4) 2" Threaded bolts into screw holes at corners of mounting plate. Attach (4) toggle bolt anchors to ends of threaded bolts.



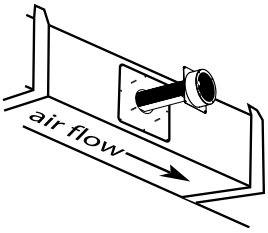
6. Remove backing from mounting plate adhesive gasket.



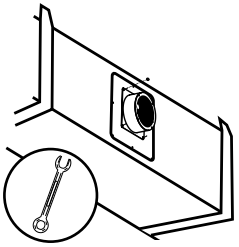
7. Insert (4) toggle bolts into 3/8" holes in duct. Be sure toggle anchors open after inserting.



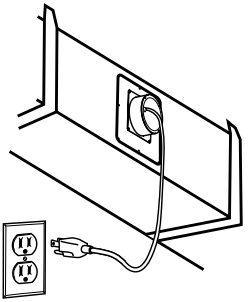
8. Center large opening in mounting plate over 3.5" opening in duct and press plate to duct. The adhesive gasket will hold the mounting plate into place.
Tighten toggle bolts - DO NOT OVERTIGHTEN.



9. Insert unit into opening. Be sure the air will pass though the RCI cell honeycomb matrix.



10. Secure the unit to the mounting plate with (4) #8-32 nuts.



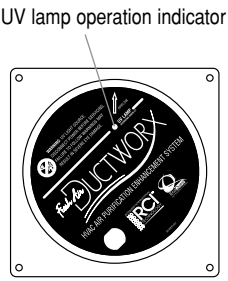
11. Plug unit into working power receptacle. Hard wiring unit into HVAC system should be done by a licensed HVAC installer or electrical contractor only.

MAINTENANCE/UV LAMP INDICATOR

Your DuctwoRx unit requires no periodic maintenance beyond normal replacement of the RCI cell every 3 years.

Note: For optimal performance, EcoQuest recommends the replacement of the RCI cell every 3 years, even if the UV lamp appears to be operating normally.

The UV lamp operation indicator on the face of the unit will glow when the UV lamp is in use. If the indicator does not glow and the unit has power, the RCI cell should be replaced.



DISPOSAL OF THE RCI CELL

Please do not throw a used RCI cell into the garbage. The special germicidal UVX bulb used in the DuctwoRx contains a very small amount of mercury. You may return your used RCI cell to EcoQuest for proper disposal. Send the used cell post paid to:

EcoQuest International
RCI Disposal
55 Marley Drive
Greeneville, TN 37743

Did you forget to register your Fresh Air DuctwoRx?

By registering, you'll activate your warranty, and your privacy is guaranteed. Just fill out your warranty card and drop it in the mail.

WARRANTY INFORMATION

This product is of solid state construction and is under warranty by:

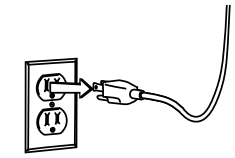
EcoQuest International
310 T. Elmer Cox Drive
Greeneville, TN 37743

to the original purchaser, depending on model, to be free from defect in materials and workmanship for a limited time. Length of warranty will vary depending on model. See warranty card for specific details. If you have any questions concerning your Fresh Air DuctwoRx, please see your local EcoQuest Dealer.

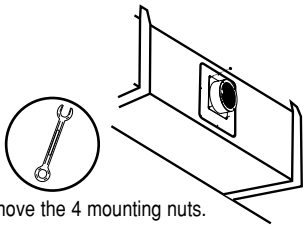
For help, visit www.EcoQuest.com.

CHANGING THE RCI CELL

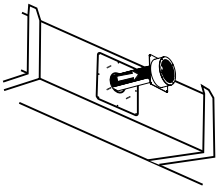
WARNING! - UV Light in operation. Disconnect unit from power supply before servicing. Failure to follow warnings may result in severe eye damage.



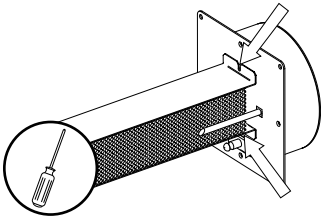
1. Unplug unit. **If the unit is hard wired, be sure the power to the unit is off.**



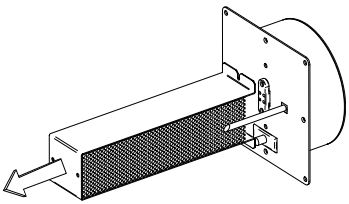
2. Remove the 4 mounting nuts.



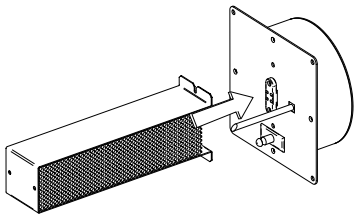
3. Remove the unit from the mounting plate.



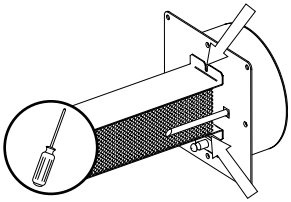
4. Remove the 2 screws holding the RCI Cell.



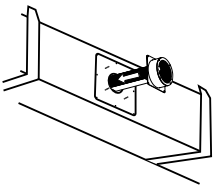
5. Separate the used RCI cell from the base unit and dispose of properly.



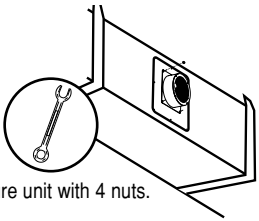
6. Plug the new RCI cell into the base unit.



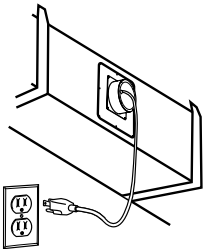
7. Secure with 2 screws.



8. Insert the unit into the mounting plate.



9. Secure unit with 4 nuts.



10. Reconnect power supply.

This equipment has been tested and found to comply with the limits for Industrial, Scientific, and Medical Equipment (ISM), pursuant to Part 18 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the Dealer or an experienced radio/TV technician for help.

FCC DECLARATION OF CONFORMITY

Name: EcoQuest

Model: Fresh Air DuctwoRx

Manufacturer: EcoQuest Manufacturing

This device complies with Part 18 of the FCC Rules.

RESPONSIBLE PARTY

EcoQuest International
310 T. Elmer Cox Dr.
Greeneville, TN 37743

Ph: (800) 989-2299

Signature:_____

Printed Name: R. Paul Beam

Title: Engineering Manager

Date: 7/9/04

EcoQuest International
310 T. Elmer Cox Drive
Greeneville, TN 37743
(423) 638-7246

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EcoQuest International "Healthy Living Technologies"®, Fresh Air by EcoQuest Logo, ***are Registered by EcoQuest™ International.***

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